

AT-NO: JP411025293A

DOCUMENT-IDENTIFIER: JP 11025293 A

TITLE: MESH CREATING METHOD

PUBN-DATE: January 29, 1999

INVENTOR-INFORMATION:

NAME

TAKAHASHI, ISAMU

UCHIDA, TOSHIO

ANZAI, KOICHI

ASSIGNEE-INFORMATION:

NAME COUNTRY

HITACHI LTD N/A

APPL-NO: JP09176774

APPL-DATE: July 2, 1997

INT-CL (IPC): G06T017/20

ABSTRACT:

PROBLEM TO BE SOLVED: To easily perform mesh division with high accuracy even when an analysis object area is an analytical model of plural materials in a complicated shape by performing such processing as to arrange an orthogonal lattice consisting of plural straight lines in a specific area, etc., of an object and combining and connecting an intersection or an intersection moving onto a cross line and a lattice point that does not move.

SOLUTION: An analysis object shape inputting part 7a performs a shape input of an analysis object. An orthogonal lattice generating part 7b arranges an orthogonal lattice consisting of plural straight lines which mutually cross in an analysis area. An intersection calculating part 7c finds an intersection of one straight line configuring a boundary and a straight line configuring an orthogonal lattice. A lattice point movement calculating part 7d defines the movement source and movement destination of the lattice point. A lattice point connection calculating part 7e creates analytical mesh of a polygon or a polyhedron by combining and connecting a moved lattice point and a lattice point that does not move. A data outputting part 7f records the number of a node which is necessary for a numeric analysis, its coordinate value, etc.

COPYRIGHT: (C)1999,JPO